



King County

DENNY WAY/LAKE UNION

CSO CONTROL PROJECT

Issue No. 12
July 2005



U.S. Environmental
Protection Agency



We're done....

...And that means a cleaner Lake Union and Elliott Bay!

The Denny Way Combined Sewer Overflow (CSO) Control Project is complete. After nearly 12 years of planning and more than four years of construction, the new system began operation in April 2005. This project is one of the most significant public investment projects undertaken by King County and, at a cost of \$140 million, the largest of the county CSO systems.

In this final project newsletter, we chronicle the project milestones and accomplishments of this joint project of King County and the City of Seattle to protect public health and the environment. You'll also find a review of the entire system and how it works to keep pollutants from entering Elliott Bay and Lake Union.

We would like to thank all project neighbors, businesses, park users, and commuters affected by construction for their understanding and patience with us during the past four years.

Now, it's time to celebrate! We hope to see you at a system dedication and celebration event on July 7, 2005. From the entire project team, thank you, and see you on the 7th!



The Denny Way project team during the hole through on March 6, 2002.

Time to Celebrate!

Join us for the dedication ceremony and a tour of the Elliott West CSO Control Facility.

WHEN: July 7, 2005, 10 - 11 a.m.

WHERE: 545 Elliott Ave. W., Seattle

Snacks and refreshments provided. See you there!

For more information about the dedication ceremony, please contact John Phillips at 206-263-6543 or john.phillips@metrokc.gov or check out <http://dnr.metrokc.gov/wtd/dennyway/>

J | | | | 2000 | | | | J

A July 2000: Construction begins: excavation of west tunnel portal.



May 2001: Tunnel boring machine (TBM) begins 1-mile journey under Mercer Street.



J | | | | 2001 | | | | J

June 2001: 60-foot-deep east tunnel portal excavation begins at 8th Ave N and Roy Street.



B March 2002: Tunnel boring machine holes through at 9:30 a.m. on March 6.



May 2002: Underwater outfalls completed offshore from Myrtle Edwards Park.



J | | | | 2002 | | | | J

June 2002: Large-diameter pipelines completed in Myrtle Edwards Park.

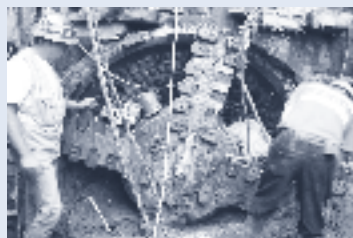


C November 2002: Crews remove old open outfall in Myrtle Edwards Park.



J | | | | 2004 | | | | J

August 2004: The micro-tunnel boring machine hits a large boulder and gets stuck. The boulder is removed through a surface excavation. After repairs, the TBM continues its journey.



November 2004: The bike path in Myrtle Edwards Park and Port of Seattle Parks is reopened.



November
Lake Union
through tir



What it took to build this project:

Milestones of the Denny Way/Lake Union Combined Sewer Overflow Control Project



2003

January 2003: Construction of CSO Control Facility begins.



August 2003: Myrtle Edwards Park shoreline is restored.



2005

2004: Construction of \$10 million south pipelines contract complete. TBM gnaws timber piles, fill material and small boulders.



May 2005: Construction of the Elliott West CSO Control Facility is complete.



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

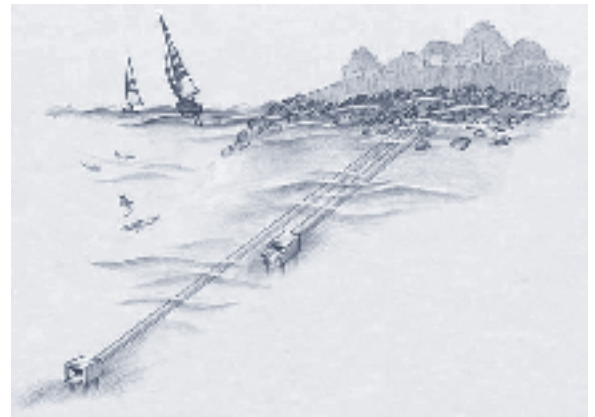
How the System Works:

The Denny Way/Lake Union CSO Control System significantly reduces CSOs to Elliott Bay and Lake Union. Until now, overflows occurred because the decades-old sewer system in Seattle was built to carry both stormwater and sewage, and many of the old pipes were not large enough to handle increased flows during storms.

Overflow points were built into the old system so combined stormwater and sewage could flow into Lake Union and Elliott Bay when the pipes filled up.

The Denny Way/Lake Union CSO Control system now captures increased flows during storms and diverts them to the Mercer Street Tunnel. During dry weather, the tunnel is empty and wastewater flows in the previously existing sewer system. During storms, increased flows are diverted into the tunnel through the south Lake Union pipelines. After a storm, the new Elliott West CSO Control Facility pumps the flows out of the Mercer Street Tunnel to King County's West Point Treatment Plant at Discovery Park.

During large storms, the tunnel could fill completely. When that happens, the CSO facility on Elliott Avenue West automatically begins treating the flows and discharges them through the new pipelines and offshore outfalls west of Myrtle Edwards Park.



Artist rendering of new outfalls west of Myrtle Edwards Park.



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We're done, time to celebrate!

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Clean water - a sound investment.